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NEWS	1			Web Page for STN Seminar Schedule - N. America
NEWS	2	APR	02	CAS Registry Number Crossover Limits Increased to 500,000 in Key STN Databases
NEWS	3	APR	02	PATDPAFULL: Application and priority number formats enhanced
NEWS	4	APR	02	DWPI: New display format ALLSTR available
NEWS	5	APR	02	New Thesaurus Added to Derwent Databases for Smooth Sailing through U.S. Patent Codes
NEWS	6	APR	02	EMBASE Adds Unique Records from MEDLINE, Expanding Coverage back to 1948
NEWS	7	APR	07	CA/CAplus CLASS Display Streamlined with Removal of Pre-IPC 8 Data Fields
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NEWS	9	APR	07	MEDLINE Coverage Is Extended Back to 1947
NEWS	10	JUN		WPI First View (File WPIFV) will no longer be available after July 30, 2010
NEWS	11	JUN	18	DWPI: New coverage - French Granted Patents
NEWS	12	JUN	18	CAS and FIZ Karlsruhe announce plans for a new STN platform
NEWS	13	JUN	18	IPC codes have been added to the INSPEC backfile (1969-2009)
NEWS	14	JUN	21	Removal of Pre-IPC 8 data fields streamline displays in CA/CAplus, CASREACT, and MARPAT
NEWS	15	JUN	21	Access an additional 1.8 million records exclusively enhanced with 1.9 million CAS Registry Numbers EMBASE Classic on STN
NEWS	16	JUN	28	Introducing "CAS Chemistry Research Report": 40 Years of Biofuel Research Reveal China Now Atop U.S. in Patenting and Commercialization of Bioethanol
NEWS	17	JUN	29	Enhanced Batch Search Options in DGENE, USGENE, and PCTGEN
NEWS	18	JUL	19	Enhancement of citation information in INPADOC databases provides new, more efficient competitor analyses
NEWS	19	JUL	26	CAS coverage of global patent authorities has expanded to 61 with the addition of Costa Rica

NEWS EXPRESS FEBRUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2, AND CURRENT DISCOVER FILE IS DATED 07 JULY 2010.

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STRUCTURE FILE UPDATES: 12 AUG 2010 HIGHEST RN 1236106-39-0 DICTIONARY FILE UPDATES: 12 AUG 2010 HIGHEST RN 1236106-39-0

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http://www.cas.org/support/stngen/stndoc/properties.html

=> e dibutyl tin oxide/cn Ε1 1 DIBUTYL TIN LAURATE MALEATE-FUMARIC ACID-2-HYDROXYPROPYLACRY LATE-3,5,5-TRIMETHYL-1-HEXYLACRYLATE POLYMER/CN DIBUTYL TIN METHOXIDE LAURYL MERCAPTIDE/CN E2 0 --> DIBUTYL TIN OXIDE/CN Е3 DIBUTYL TITANOCENE/CN E41 DIBUTYL TRISULFIDE/CN DIBUTYL TRISULFIDE/CN DIBUTYL TRISULFIDE/CN E5 1 Ε6 1 Ε7 1 DIBUTYL TRITHIOPHOSPHOROCHLORIDATE/CN Ε8

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DIBUTYL URALSAPONIN A ESTER/CN
E9
             1
                   DIBUTYL VINYL PHOSPHONATE-DIOCTYL FUMARATE-VINYLIDENE CHLORI
E10
             1
                   DE COPOLYMER/CN
             1
                   DIBUTYL VINYLBORONATE/CN
E11
E12
             1
                   DIBUTYL VINYLPHOSPHONATE/CN
=> e dibutyltin oxide/cn
                   DIBUTYLTIN OLEATE SEBACATE, SALT WITH ANTIMONY 2-ETHYLHEXANO
                   ATE 2-ETHYLHEXYL MERCAPTOACETATE DERIV./CN
E2
             1
                   DIBUTYLTIN OXALATE/CN
Е3
             1 --> DIBUTYLTIN OXIDE/CN
E4
             1
                  DIBUTYLTIN OXIDE 3-(2-MERCAPTOETHYL)CYCLOHEXANETHIOL-4-(2-ME
                   RCAPTOETHYL) CYCLOHEXANETHIOL COPOLYMER/CN
             1
                   DIBUTYLTIN OXIDE POLYMER/CN
E5
                   DIBUTYLTIN OXIDE-3-MERCAPTO-1,2-PROPANEDIOL COPOLYMER/CN
E.6
             1
Е7
                   DIBUTYLTIN OXIDE-DIMETHYL TEREPHTHALATE-ETHYLENE GLYCOL-N, N'
             1
                   -HEXAMETHYLENEBIS (4-CARBOXYPHTHALIMIDE)-TRIS (2-HYDROXYETHYL)
                    ISOCYANURATE POLYMER/CN
F.8
             1
                   DIBUTYLTIN OXIDE-DIOCTYL PHTHALATE COMPLEX/CN
E9
             1
                   DIBUTYLTIN OXIDE-THIOGLYCOLIC ACID POLYMER/CN
E10
             1
                   DIBUTYLTIN OXIDE-TRIBUTYL PHOSPHATE COPOLYMER/CN
E11
             1
                  DIBUTYLTIN P-NITROBENZENEARSONATE/CN
E12
                   DIBUTYLTIN PERCHLORATE/CN
=> s e3
L1
             1 "DIBUTYLTIN OXIDE"/CN
=> d 11
    ANSWER 1 OF 1 REGISTRY COPYRIGHT 2010 ACS on STN
L1
    818-08-6 REGISTRY
RN
    Entered STN: 16 Nov 1984
ED
     Stannane, dibutyloxo- (CA INDEX NAME)
OTHER CA INDEX NAMES:
    Dibutyltin oxide (6CI)
OTHER NAMES:
CN
    Cotin 100
CN
    Di-n-butyltin oxide
CN
    Dibutyloxostannane
CN
    Dibutyloxotin
CN
    Dibutylstannane oxide
CN
    Eurecat 9555
CN
    Eurecat 9560
    Fascat 4201
CN
    Fomrez SUL 11A
CN
    Neostann U 300
CN
    NSC 28130
CN
CN
     Stann BO
CN
    Tegokat 248
    U 300
CN
     695165-22-1, 144377-64-0
DR
MF
    C8 H18 O Sn
CI
LC
                 AGRICOLA, AQUIRE, BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT,
     STN Files:
       CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, GMELIN*,
       IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, PROMT, RTECS*, TOXCENTER,
       ULIDAT, USPAT2, USPATFULL, USPATOLD
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(*File contains numerically searchable property data) Other Sources: DSL**, EINECS**, TSCA** (**Enter CHEMLIST File for up-to-date regulatory information) 0 n-Bu-Sn-Bu-n **PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT** 2542 REFERENCES IN FILE CA (1907 TO DATE) 141 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA 2555 REFERENCES IN FILE CAPLUS (1907 TO DATE) => e dioctyltin oxide/cn 1 DIOCTYLTIN MERCAPTOPROPIONATE/CN 1 DIOCTYLTIN OXALATE/CN 1 --> DIOCTYLTIN OXIDE/CN DIOCTYLTIN PERCHLORATE/CN 1 DIOCTYLTIN PHOSPHITE/CN 1 DIOCTYLTIN FROSPRITE/CN
DIOCTYLTIN PHTHALATE/CN
DIOCTYLTIN S,O-3-MERCAPTOPROPIONATE/CN
DIOCTYLTIN S,O-MERCAPTOACETATE/CN
DIOCTYLTIN S,S'-BIS(ISOOCTYL MERCAPTOACETATE)/CN
DIOCTYLTIN S,S-BIS(THIOACETIC ACID OCTYL ESTER)/CN
DIOCTYLTIN STEARATE OLEATE/CN E10 E11 E12 DIOCTYLTIN SULFIDE/CN 1 => s e3 1 "DIOCTYLTIN OXIDE"/CN => d 12ANSWER 1 OF 1 REGISTRY COPYRIGHT 2010 ACS on STN 870-08-6 REGISTRY Entered STN: 16 Nov 1984 Stannane, dioctyloxo- (CA INDEX NAME) OTHER CA INDEX NAMES: Dioctyltin oxide (6CI) Tin, dioctyloxo- (7CI) OTHER NAMES: Di-n-octyltin oxide Dioctyloxostannane Irgastab T 161 NSC 140743 Stann 00 U 800 U 800 (heat stabilizer) C16 H34 O Sn COM

Ε2

E3

E4

E.5

E.6 Ε7 Ε8 E.9

L2

ED

CN

CN

CN

CN

CN CN

CN

CN CN

CN

MF

CI

LC

STN Files:

CHEMINFORMRX, CHEMLIST, CSCHEM, GMELIN*, IFICDB, IFIPAT, IFIUDB, PIRA,

RTECS*, TOXCENTER, USPAT2, USPATFULL, USPATOLD

ANABSTR, BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS,

(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)

O || Me- (CH2)7-Sn- (CH2)7-Me

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

436 REFERENCES IN FILE CA (1907 TO DATE)
32 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
437 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 16.67 16.89

FULL ESTIMATED COST

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FILE COVERS 1907 - 13 Aug 2010 VOL 153 ISS 8
FILE LAST UPDATED: 12 Aug 2010 (20100812/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2010

CAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2010.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l1 (L) (fat# or oil#) 2555 L1 370291 FAT#

1077862 OIL#

L3 30 L1 (L) (FAT# OR OIL#)

=> s 13 and esterification

112762 ESTERIFICATION

655 ESTERIFICATIONS

112931 ESTERIFICATION

(ESTERIFICATION OR ESTERIFICATIONS)

L4 1 L3 AND ESTERIFICATION

=> d 14 ibib abs

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1996:319146 CAPLUS

DOCUMENT NUMBER: 125:9183

ORIGINAL REFERENCE NO.: 125:2071a,2074a

TITLE: Production of tocopherol concentrates from vegetable

oil byproducts by an esterification

/distillation process

INVENTOR(S): Barnicki, Scott D.; Sumner, Charles E., Jr.; Williams,

H. Chip

PATENT ASSIGNEE(S): Eastman Chemical Company, USA

SOURCE: U.S., 17 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	TENT NO.			KINI	D DATE	APPLICATION NO.		DATE
US	5512691			 А	19960430	US 1994-334901		19941107
ZA	9509433			A	19960515	ZA 1995-9433		19951107
CA	2203550			A1	19960517	CA 1995-2203550		19951107
WO	9614311			A1	19960517	WO 1995-US14612		19951107
	W: AU,	BR,	CA,	CN,	CZ, HU, JP,	MX, RU, SK, UA		
	RW: AT,	BE,	CH,	DE,	DK, ES, FR,	GB, GR, IE, IT, LU,	MC, N	L, PT, SE
AU	9641530			Α	19960531	AU 1996-41530		19951107
EP	790990			A1	19970827	EP 1995-939870		19951107
EP	790990			В1	20010620			
	R: DE,	ES,	FR,	GB,	IT, NL, PT			
BR	9509626			A	19980106	BR 1995-9626		19951107
CN	1171106			А	19980121	CN 1995-196967		19951107
CN	1176920			С	20041124			
JP	10508605	,		T	19980825	JP 1996-515525		19951107
JP	4142096			В2	20080827			
ES	2157350			Т3	20010816	ES 1995-939870		19951107
PT	790990			\mathbf{E}	20010928	PT 1995-939870		19951107
PRIORIT:	Y APPLN.	INFO	.:			US 1994-334901	A	19941107
						WO 1995-US14612	W	19951107

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB An improved process is described for the preparation of tocopherol concs. from vegetable oil distillates. Tocopherol concs. are obtained containing 20-80% tocopherol by weight, with an overall recovery of tocopherol of 72-97%. The process is comprised first of an esterification reaction where the more volatile alcs. are converted to their less volatile fatty acid esters, followed by a series of distillation steps where components boiling

higher and lower than the tocopherols are separated from tocopherols and other like boiling substances. Advantages of the process are that tocopherol concs. are produced efficiently and economically in a min. number of steps without the use of solvents and with a relatively small capital investment.

OS.CITING REF COUNT: 19 THERE ARE 19 CAPLUS RECORDS THAT CITE THIS

RECORD (19 CITINGS)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FILE 'REGISTRY' ENTERED AT 12:13:34 ON 13 AUG 2010

E DIBUTYL TIN OXIDE/CN

E DIBUTYLTIN OXIDE/CN

L1 1 S E3

E DIOCTYLTIN OXIDE/CN

L2 1 S E3

FILE 'CAPLUS' ENTERED AT 12:15:27 ON 13 AUG 2010

L3 30 S L1 (L) (FAT# OR OIL#) L4 1 S L3 AND ESTERIFICATION

=> s 11 (5w) catalyst

2555 L1

896755 CATALYST

895610 CATALYSTS

1152263 CATALYST

(CATALYST OR CATALYSTS)

L5 553 L1 (5W) CATALYST

=> s 12 (5w) catalyst

437 L2

896755 CATALYST

895610 CATALYSTS

1152263 CATALYST

(CATALYST OR CATALYSTS)

L6 76 L2 (5W) CATALYST

=> s 15 (S) esterification

112762 ESTERIFICATION

655 ESTERIFICATIONS

112931 ESTERIFICATION

(ESTERIFICATION OR ESTERIFICATIONS)

L7 47 L5 (S) ESTERIFICATION

=> s 17 and (fat# or oil#)

370291 FAT#

1077862 OIL#

L8 4 L7 AND (FAT# OR OIL#)

=> d 18 1-4 ibib abs

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:1428230 CAPLUS

DOCUMENT NUMBER: 148:102057

TITLE: Method for preparing water-thinned alkyd resin

emulsions

INVENTOR(S): Hu, Zhong; Dong, Guanxiu; Yan, Jun; Zhu, Baoying PATENT ASSIGNEE(S): Changzhou Paint and Coatings Chemical Industry Research Institute, China National Chemical

Construction Corperation, Peop. Rep. China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 11pp.

CODEN: CNXXEV

DOCUMENT TYPE: Patent LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 101085858	A	20071212	CN 2006-10085807	20060605
CN 100494274	С	20090603		
ORITY APPLN. INFO.:			CN 2006-10085807	20060605

PRIOR Title emulsions comprise emulsifier resin (A) and alkyd resin (B) at weight AΒ ratio of (3:1)-(1:3). Title method comprises: blending A and B; adding water slowly; and stirring at high speed for uniform dispersion. A is prepared by: blending polyurethane resin (A1) and alkyd resin (A2) at weight ratio of 1:(1-3), polymerizing; and neutralizing with volatile organic amine at amount for neutralizing 70-105 % of carboxyl groups in A. The theor. acid value of the polyurethane resin is 20-45 mg KOH/g. B is prepared by: mixing diisocyanate, polyether polyol, diol containing carboxyl groups and N-Me pyrrolidone; and polymerizing in the presence of esterification catalyst; wherein mol. ratio of NCO to OH is (1.4-2.5):1. The acid values of the alkyd resin (A2) and the alkyd resin (B) are not higher than 5 mg KOH/g, and the hydroxyl value of the alkyd resin (A2) is not lower than 30 mg KOH/g. Such emulsions can be used in air-drying or oven-drying paints for primer or topcoat.

L8 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:961890 CAPLUS

DOCUMENT NUMBER: 143:231745

TITLE: Transparent candle containing ditrimethylolpropane

fatty acid tetraesters and method of making

INVENTOR(S): Allison, Gerald; Fernandez, Erginio; Dean, Jonathan

PATENT ASSIGNEE(S): Firmenich S. A., Switz.; Clearwax Llc.

SOURCE: PCT Int. Appl., 18 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
WO 2005079219	A2 200509	001 WO 2005-US1960	20050121
WO 2005079219	A3 200612	221	
W: AE, AG, AL,	AM, AT, AU, A	AZ, BA, BB, BG, BR, BW,	BY, BZ, CA, CH,
CN, CO, CR,	CU, CZ, DE, D	DK, DM, DZ, EC, EE, EG,	ES, FI, GB, GD,
GE, GH, GM,	HR, HU, ID, I	IL, IN, IS, JP, KE, KG,	KP, KR, KZ, LC,
LK, LR, LS,	LT, LU, LV, M	MA, MD, MG, MK, MN, MW,	MX, MZ, NA, NI,

NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, SM RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 20050262758 Α1 20051201 US 2005-40932 EP 1749080 Α2 20070207 EP 2005-705998 20050121 AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, LV, MK, YU BR 2005-6954 BR 2005006954 Α 20070626 20050121 CN 1997728 20070711 CN 2005-80002665 20050121 Α JP 2007518868 20070712 JP 2006-551308 Τ 20050121 US 7544221 20090609 US 2006-489146 В2 20060718 PRIORITY APPLN. INFO.: US 2004-538363P Ρ 20040121 WO 2005-US1960 20050121 W

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 143:231745

GΙ

AB Provided is a transparent candle comprised substantially of tetraesters of di (trimethylolpropane) (I): wherein R1, R2, R3, and R4 independently, a linear or branched alkyl group having from about 9 to about 29 carbon atoms. Thus, a transparent candle base was prepared by esterifying 1 mol of ditrimethylolpropane with 4 mol fatty acids containing myristic acid, palmitic acid, and stearic acid in the presence of tetraisopropyl titanate. The base material (80%) was then mixed with benzyl benzoate (10%) and Regalite 1090 (10%) at 140-15-° and poured into a wick-containing mold to give a transparent candle.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:660702 CAPLUS

DOCUMENT NUMBER: 143:154552

TITLE: Method for continuous manufacture of

high-molecular-weight polyester compositions using extruders, and formed articles of the compositions

Ito, Hiroshi; Kishimoto, Takehisa; Matsuura, Michio; INVENTOR(S):

Ueda, Akira

PATENT ASSIGNEE(S): Nippon Shokubai Co., Ltd., Japan; Nippon Polyester

Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE							
	JP 2005200582	A	20050728	JP 2004-9749	20040116							
PRIO	RITY APPLN. INFO.:			JP 2004-9749	20040116							
AB	Title method includ	es (1)	decreasing a	cid value of polyesters	(preferably							
	recycled PET) and (2) melt-mixing of the polyesters with polyfunctional											
	compds. reactive to	alc. 0	H. The compa	ns. are formed by conti	nuous							
	extrusion or direct	blow-m	olding. Thu	s, melt-mixing Clearfla	ke							
	(alkali-washed recy	cled PE	T from waste	bottles) with pyromell	itic							
	dianhydride in an e	xtruder	under vacuu	m (-0.09 MPa) gave a co	mposition showing							
	MFR $13.3 \text{ g}/10 \text{ min.}$											

ANSWER 4 OF 4 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1964:483774 CAPLUS

DOCUMENT NUMBER: 61:83774 ORIGINAL REFERENCE NO.: 61:14536f-q TITLE: Diesters

INVENTOR(S): Gearhart, William M.; Bramer, Paul T. Von; Hagemeyer,

Hugh J., Jr.; Robinson, Alfred C.; Hull, David C.

PATENT ASSIGNEE(S): Eastman Kodak Co.

SOURCE: 26 pp. DOCUMENT TYPE: Patent Unavailable LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	FR 1359112		19640424	FR 1962-915198	19621113
	GB 1030213			GB	
	GB 1030215			GB	
	US 3211561		19651012	US 1961-152609	19611115
PRIO	RITY APPLN. INFO.:			US	19621115

1,3-Glycol monoesters, which contain a secondary alc. group, are AB esterified with a mono- or dicarboxylic acid in the presence of a neutral or basic organotin compound to give compds. which can be used as plasticizers. Thus, a mixture of 1096 g. 2,2,4-trimethyl-1,3-pentanediol (I), 585 g. adipic acid (II), and 176 g. iso-PrCO2H (III) in 200 ml. PhMe and 1.5 q. Bu2SnO in 300 ml. xylene is refluxed 8 hrs. as the H2O is removed as part of an azeotrope, the product washed at 80° with an equal volume of 7.5% NaOH, and the organic phase separated, washed with H2O, and

distilled to give 96% polyester, APHA color 150. Similarly prepared are (reactants and mol. weight of product given): I, II, III, -; I monoisobutyrate (IV), II, 625; IV, phthalic anhydride; 640; IV, azelaic acid 695; 2,4-dimethyl-2-ethyl-1,3-hexanediol mono(2-methylbutyrate), II,

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670; I, II, III, 900; I, II, IV, 700.

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FILE 'REGISTRY' ENTERED AT 12:13:34 ON 13 AUG 2010

E DIBUTYL TIN OXIDE/CN
E DIBUTYLTIN OXIDE/CN

L1 1 S E3

E DIOCTYLTIN OXIDE/CN

L2 1 S E3

FILE 'CAPLUS' ENTERED AT 12:15:27 ON 13 AUG 2010

L3 30 S L1 (L) (FAT# OR OIL#)
L4 1 S L3 AND ESTERIFICATION
L5 553 S L1 (5W) CATALYST
L6 76 S L2 (5W) CATALYST
L7 47 S L5 (S) ESTERIFICATION
L8 4 S L7 AND (FAT# OR OIL#)

=> s 11 (S) (fat# or oil#)

2555 L1 370291 FAT# 1077862 OIL#

L9 25 L1 (S) (FAT# OR OIL#)

=> s 19 and (esterification or transesterification)

112762 ESTERIFICATION 655 ESTERIFICATIONS 112931 ESTERIFICATION

(ESTERIFICATION OR ESTERIFICATIONS)

25761 TRANSESTERIFICATION
335 TRANSESTERIFICATIONS
25831 TRANSESTERIFICATION

(TRANSESTERIFICATION OR TRANSESTERIFICATIONS)
6 L9 AND (ESTERIFICATION OR TRANSESTERIFICATION)

=> d 110 1-6 ibib abs

L10

SOURCE:

L10 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:869943 CAPLUS

DOCUMENT NUMBER: 151:362862

TITLE: Transesterification of soybean oil in the

presence of diverse alcoholysis agents and Sn(IV) organometallic complexes as catalysts, employing two

different types of reactors

AUTHOR(S): de Mendonca, Daniel R.; da Silva, Jhosianna P. V.; de

Almeida, Rusiene M.; Wolf, Carlos R.; Meneghetti,

Mario R.; Meneghetti, Simoni M. P.

CORPORATE SOURCE: Instituto de Quimica e Biotecnologia, Universidade

Federal de Alagoas, Maceio, AL, 57072-970, Brazil Applied Catalysis, A: General (2009), 365(1), 105-109

CODEN: ACAGE4; ISSN: 0926-860X

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A systematic study on alcoholysis of soybean oil in the presence of Sn(IV) complexes, to produce fatty acid alkyl esters, was carried out under different reaction conditions. Firstly, two different types of reactors were employed and compared: An open glass reactor, equipped with a reflux condenser, and a closed steel reactor. Results point out that the use of the closed steel reactor is advantageous, since higher yields are obtained in shorter reaction times. In the sequence, five alcs. were used as alcoholysis agents (methanol, ethanol, n-butanol, iso-propanol, and iso-butanol) in the presence of di-Bu tin dilaurate as catalyst. Under these conditions and using only a slight excess of alc., high yields of fatty acid alkyl esters were obtained.

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:1244661 CAPLUS

DOCUMENT NUMBER: 149:474460

TITLE: Capped polyester polyol lubricant composition

INVENTOR(S): Sonnenschein, Mark F.; Greaves, Martin R.; Sanders, Aaron W.; Lysenko, Zenon; Spilman, Gary E.; Frycek,

George J.; Phillips, Joe D.; Schrock, Alan K.; Martin,

Steven J.

PATENT ASSIGNEE(S): Dow Global Technologies, Inc., USA

SOURCE: PCT Int. Appl., 28pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA:	PATENT NO.			KIND DATE				APPLICATION NO.						DATE			
	2008 2008				A2					WO 2	008-1	US57	569		2	080	320
	₩:	AE, CA, FI, KG, ME, TN, AT, IE, TR,	AG, CH, GB, KM, MG, PT, TR, BE, IS,	AL, CN, GD, KN, MK, RO, TT, BG, IT, BJ,	AM, CO, GE, KP, MN, RS, TZ, CH, LT,	AO, CR, GH, KR, MW, RU, UA, CY, LU, CG,	AT, CU, GM, KZ, MX, SC, UG, CZ, LV, CI, LS,	AU, CZ, GT, LA, MY, SD, US, DE, MC, CM,	DE, HN, LC, MZ, SE, UZ, DK, MT, GA,	DK, HR, LK, NA, SG, VC, EE, NL, GN,	DM, HU, LR, NG, SK, VN, ES, NO, GQ,	DO, ID, LS, NI, SL, ZA, FI, PL, GW,	DZ, IL, LT, NO, SM, ZM, FR, PT,	EC, IN, LU, NZ, SV, ZW GB, RO, MR,	EE, IS, LY, OM, SY, GR, SE, NE,	EG, JP, MA, PG, TJ, HR, SI, SN,	ES, KE, MD, PH, TM, HU, SK, TD,
EP	2134 R:	822 AT,	BE,	BG,	A2 CH,	CY,	MD, 2009 CZ, LU,	1223 DE,	DK,	EP 2 EE,	008- ES,	7325 FI,	13 FR,	GB,	GR,	HR,	HU,
AR US	2010 6743 2010 1016 Y APP	0 0087 7989	97 350 4				2010 2009 2010 2010	1014		AR 2 US 2 CN 2 US 2	010 008 009 008	1014 5941 8001 9224	57 37 9450 76P		2 2 2 2 P 2	0080 0080 0091 0091 0070	408 120 209 409

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

MARPAT 149:474460 OTHER SOURCE(S):

The present invention relates to polyester polyol lubricant compns., some of which are capped, that include two or more chemical linked ester moieties, at least one of which derives from a seed or vegetable oil, and their preparation The compns. have a pour point temperature of -10° or less without a pour point depressant and a viscosity at 25° within a range of 40 cP (0.04 Pa 2nd) to 2000 cP (2 Pa seconds) when they either lack an initiator moiety or include an initiator moiety other than a dendritic initiator moiety, and a pour point temperature of -5° or less without a pour point depressant and a viscosity at 25° within a range of 40 cP (0.04 Pa 2nd) to 8000 cP (8 Pa seconds) when they include a dendritic initiator moiety. The present invention also relates to a process for removing at least a portion of sats. from said compns.

L10 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:1351253 CAPLUS

DOCUMENT NUMBER: 148:195058

TITLE: Biodiesel from Rice Bran Oil:

Transesterification by Tin Compounds

Einloft, Sandra; Magalhaes, Tatiana O.; Donato, AUTHOR(S):

Augusto; Dullius, Jeane; Ligabue, Rosane

CORPORATE SOURCE: Faculdade de Quimica/PGETEMA, Pontificia Universidade

Catolica do Rio Grande do Sul, Porto Alegre,

90619-900, Brazil

SOURCE: Energy & Fuels (2008), 22(1), 671-674

CODEN: ENFUEM; ISSN: 0887-0624

PUBLISHER: American Chemical Society

Journal DOCUMENT TYPE: LANGUAGE: English

The transesterification of rice bran oil with methanol was studied in the presence of sulfuric acid (H2SO4), tin chloride dihydrate $(SnC12 \cdot 2H20)$, tin 2-ethylhexanoate (Sn(C8H1502)2), di-Bu tin oxide (Bu2SnO), and di-Bu tin dilaurate (Bu2Sn(C12H23O2)2), known com. as DBTDL. Through the comparative anal. among the catalysts, the complex DBTDL presented the best performance, with a yield of 68.9% in 4 h using molar ratio 400:100:1 (methanol:oil:catalyst). These results evidenced the viability of the use of metallic compds. as catalysts in the obtainment of biodiesel, an interesting alternative to basic and acid catalysis.

OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD

(8 CITINGS)

THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 22 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN

2002:461315 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 137:35401

TITLE: Transesterification catalysts for

> preparation of secondary alkyl esters of hydroxyacids as antifriction-lubricity lubricating oil additives

Nelson, Lloyd A.; Pollock, Charley M.; Achatz, Gregory INVENTOR(S):

J.

PATENT ASSIGNEE(S): Arizona Chemical Company, USA

SOURCE: U.S., 10 pp. CODEN: USXXAM

Patent

DOCUMENT TYPE: LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE _____ ---------US 6407272 B1 20020618 US 2000-481004 20000110 US 1999-143745P P 19990714 PRIORITY APPLN. INFO.:

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 137:35401

Secondary alc. esters of hydroxyacids, especially for use as antifriction-lubricity lubricating oil additives, are prepared by reacting an ester of a hydroxyacid with a secondary alc. in the presence of a homogeneous organometallic transesterification catalyst containing a metal selected from metals with atomic number of 13, 21-32, 39-51, and 71-84. Under these conditions, a high proportion of the starting ester of the hydroxyacid is converted into a secondary alc. ester and the formation of byproducts, especially estolides, is minimized. The secondary alkyl ester of the hydroxyacid has the formula R4R5CH-O-C(:O)-R2-CH(OH)-R3, in which R3, R4, and R5 are C1-22-alkyl and R2 = C1-22-alkylene. Preferably, the ester of a hydroxyacid is castor oil, the secondary alkyl ester of a hydroxy acid is derived from ricinoleic acid, and the transesterification catalyst is a Sn(II) or Sn(IV) compound

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD

(1 CITINGS)

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1996:319146 CAPLUS DOCUMENT NUMBER: 125:9183

125:9183

ORIGINAL REFERENCE NO.: 125:2071a,2074a

Production of tocopherol concentrates from vegetable TITLE:

oil byproducts by an esterification

/distillation process

INVENTOR(S): Barnicki, Scott D.; Sumner, Charles E., Jr.; Williams,

H. Chip

PATENT ASSIGNEE(S): Eastman Chemical Company, USA

SOURCE: U.S., 17 pp. CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: Enalish

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
US 5512691	A 19960430	US 1994-334901	19941107
ZA 9509433	A 19960515	ZA 1995-9433	19951107
CA 2203550	A1 19960517	CA 1995-2203550	19951107
WO 9614311	A1 19960517	WO 1995-US14612	19951107
W: AU, BR, CA,	CN, CZ, HU, JP,	MX, RU, SK, UA	
RW: AT, BE, CH,	DE, DK, ES, FR,	GB, GR, IE, IT, LU, MC,	NL, PT, SE
AU 9641530	A 19960531	AU 1996-41530	19951107
EP 790990	A1 19970827	EP 1995-939870	19951107
EP 790990	B1 20010620		
R: DE, ES, FR,	GB, IT, NL, PT		
BR 9509626	A 19980106	BR 1995-9626	19951107

CN 1171106	A	19980121	CN 1995-196967		19951107
CN 1176920	С	20041124			
JP 10508605	T	19980825	JP 1996-515525		19951107
JP 4142096	B2	20080827			
ES 2157350	Т3	20010816	ES 1995-939870		19951107
PT 790990	E	20010928	PT 1995-939870		19951107
PRIORITY APPLN. INFO.:			US 1994-334901	A	19941107
			WO 1995-US14612	W	19951107

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB An improved process is described for the preparation of tocopherol concs. from vegetable oil distillates. Tocopherol concs. are obtained containing 20-80% tocopherol by weight, with an overall recovery of tocopherol of 72-97%. The process is comprised first of an esterification reaction where the more volatile alcs. are converted to their less volatile fatty acid esters, followed by a series of distillation steps where components boiling higher and lower than the tocopherols are separated from tocopherols and other like boiling substances. Advantages of the process are that tocopherol concs. are produced efficiently and economically in a min. number of steps without the use of solvents and with a relatively small capital investment.

OS.CITING REF COUNT: 19 THERE ARE 19 CAPLUS RECORDS THAT CITE THIS

RECORD (19 CITINGS)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1990:179480 CAPLUS

DOCUMENT NUMBER: 112:179480

ORIGINAL REFERENCE NO.: 112:30369a,30372a

TITLE: Removal of organotin compounds using sulfonic or

sulfamic acids

INVENTOR(S): Kawaguchi, Hitoshi; Yokomatsu, Takashi; Nakajima,

Yoshikazu; Kiyama, Aiichiro

PATENT ASSIGNEE(S): Yoshitomi Pharmaceutical Industries, Ltd., Japan; M

and T Yoshitomi K. K.

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01246291	A	19891002	JP 1988-72815	19880325
PRIORITY APPLN. INFO.:			JP 1988-72815	19880325

AB Organotin compds. in oil-soluble matters are removed by treatment with sulfonic or sulfamic acids or their salts, followed by extraction of the resulting oil-insol. or slightly oil-soluble organotin compds. with H2O. Bu2SnCl2 (I) of Gardner number 4 was treated with an aqueous H2NSO3Na solution

 60° for 30 min, the reaction mixture was treated with decolorizing carbon in H2O, and then filtered. The filtrate was treated with an aqueous HCl solution at 60° for 10 min to give 96% I of Gardner number 1, vs. 85% and number 1, resp., for a control by vacuum distillation of crude I.

=> d his

(FILE 'HOME' ENTERED AT 12:13:17 ON 13 AUG 2010) FILE 'REGISTRY' ENTERED AT 12:13:34 ON 13 AUG 2010 E DIBUTYL TIN OXIDE/CN E DIBUTYLTIN OXIDE/CN L11 S E3 E DIOCTYLTIN OXIDE/CN L2 1 S E3 FILE 'CAPLUS' ENTERED AT 12:15:27 ON 13 AUG 2010 30 S L1 (L) (FAT# OR OIL#) L3 1 S L3 AND ESTERIFICATION L4L5 553 S L1 (5W) CATALYST 76 S L2 (5W) CATALYST L6 L7 47 S L5 (S) ESTERIFICATION L8 4 S L7 AND (FAT# OR OIL#) 1.9 25 S L1 (S) (FAT# OR OIL#) 6 S L9 AND (ESTERIFICATION OR TRANSESTERIFICATION) L10 => s 12 (s) (fat# or oil#) 437 L2 370291 FAT# 1077862 OIL# L11 1 L2 (S) (FAT# OR OIL#) => => d l11 ibib abs L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1963:463220 CAPLUS DOCUMENT NUMBER: 59:63220 ORIGINAL REFERENCE NO.: 59:11735b-e TITLE: Organotin compounds as catalysts in the reaction of organic polyisocyanates with compounds containing active hydrogen atoms INVENTOR(S): Hostettler, Fritz; Cox, Eugene F. PATENT ASSIGNEE(S): Union Carbide Corp. SOURCE: 7 pp. DOCUMENT TYPE: Pat.ent. LANGUAGE: Unavailable PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE _____ ____ US 3084177 19630402 US 1961-119024 19610623 Organotin compds. having at least 1 direct C-Sn bond are useful catalysts AΒ in the reaction of organic compds. having 1 or more reactive NCY groups (where Y is O or S) with compds. having groups containing active ${\tt H.}$ The preferred Sn compds. are thore having 1-3 C bonds directly to an Sn atom and 1 or more catalytically intensifying bonds from the Sn to a halogen or H, O, S, N, or P atom. In an example, ϵ -caprolactone (I) 228, ethylene oxide (II) 176, and ethylene glycol 11.4 g. were copolymerized in

(III). Then 20-g. portions III were mixed at room temperature with 1.74 ml. of

the presence of 0.55 g. BF3-Et20 (47% BE3) to form linear copolymers

a 65:35 mixture of 2,4- and 2,6-tolylene diisocyanate in the presence of 0.1 g. of catalyst, and the systems gelled (catalyst and gel time (min.) given): none, 1440; N-methylmorpholine, 120; dibutyltin oxide, 3; dioctyltin oxide (IV), 2. In another example, 75 g. of a long-chain linear polyester prepared from adipic acid and diethylene glycol was mixed with 1.5 ml. H2O, 2.0 ml. emulsifying agent, and 2.0 ml. of a C6H6 solution containing 50.9% IV. Then 25 g. m-xylene diisocyanate (V) was added with vigorous stirring and the mixture transferred to an open mold. The resulting foam had a d. of 2.97 lb./cu. ft. and compression loads of 0.22 and 0.45 lb./sq. in. at 10 and 50% deflection, resp. Also I was copolymerized with II and trimethylolpropane and the product was treated with V with IV as the catalyst. A copolymer of I, II, and ethylene glycol was treated with a mixture of diisocyanates with Bu2Sn diacetate as the catalyst. A polyester prepared from adipic acid and 1,2,6-hexanetriol was treated with a mixture of diisocyanates by using Bu2Sn dilaurate as the catalyst. Other reactants used were polypropylene glycol 2025, ethanolamine, and castor oil. OS.CITING REF COUNT: THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD 1 (1 CITINGS) => d his (FILE 'HOME' ENTERED AT 12:13:17 ON 13 AUG 2010) FILE 'REGISTRY' ENTERED AT 12:13:34 ON 13 AUG 2010 E DIBUTYL TIN OXIDE/CN E DIBUTYLTIN OXIDE/CN

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L1
              1 S E3
                E DIOCTYLTIN OXIDE/CN
              1 S E3
L2
     FILE 'CAPLUS' ENTERED AT 12:15:27 ON 13 AUG 2010
L3
             30 S L1 (L) (FAT# OR OIL#)
L4
              1 S L3 AND ESTERIFICATION
            553 S L1 (5W) CATALYST
L5
L6
             76 S L2 (5W) CATALYST
L7
             47 S L5 (S) ESTERIFICATION
              4 S L7 AND (FAT# OR OIL#)
L8
L9
             25 S L1 (S) (FAT# OR OIL#)
L10
             6 S L9 AND (ESTERIFICATION OR TRANSESTERIFICATION)
L11
              1 S L2 (S) (FAT# OR OIL#)
=> s 12 (S) (transestrification or esterification)
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437 L2

4 TRANSESTRIFICATION

112762 ESTERIFICATION

655 ESTERIFICATIONS

112931 ESTERIFICATION

(ESTERIFICATION OR ESTERIFICATIONS)

L12 8 L2 (S) (TRANSESTRIFICATION OR ESTERIFICATION)

=> d 112 1-8 ibib abs

L12 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:1241268 CAPLUS

DOCUMENT NUMBER: 143:478364

TITLE: Process for production of alkyltin alkoxides

INVENTOR(S): Miyake, Nobuhisa; Onishi, Kazuhiro; Bijanto, Budianto

PATENT ASSIGNEE(S): Asahi Kasei Chemicals Corporation, Japan

SOURCE: PCT Int. Appl., 110 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

					KIND DATE		APPLICATION NO.						DATE				
					WO 2005-JP9032						2	 0050	518				
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	ВВ	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DΖ	, EC,	EE,	EG,	ES,	FΙ,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS	, JP,	KE,	KG,	KM,	KP,	KR,	KΖ,
		LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD	, MG,	MK,	MN,	MW,	MX,	MZ,	ΝA,
		NG,	ΝI,	NO,	NΖ,	OM,	PG,	PH,	PL,	PΤ	, RO,	RU,	SC,	SD,	SE,	SG,	SK,
		SL,	SM,	SY,	ТJ,	TM,	TN,	TR,	TT,	TZ	, UA,	UG,	US,	UΖ,	VC,	VN,	YU,
		ZA,	ZM,	ZW													
	RW:	BW,	GH,	GM,	KΕ,	LS,	MW,	MΖ,	NA,	SD	, SL,	SZ,	TZ,	UG,	ZM,	ZW,	ΑM,
		ΑZ,	BY,	KG,	KΖ,	MD,	RU,	ТJ,	TM,	ΑT	, BE,	BG,	CH,	CY,	CZ,	DE,	DK,
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		RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	CF,	CG	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML ,
		MR,	,	,	TD,												
	2566				A1						2005-						
EP	1760										2005-						
	R:										ES,				-	HU,	ΙE,
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-	1997				А		2007	-			2005-						
	2005										2005-						
	2338										2006-					0050	
_	4257						2009	-			2006-					0050	
	2990	42	000		В		2008				2005-					0050	
	2006						2007				2006-					0061	
	2008		262		A1		2008			US	2006-	5968	85		2	0061	11 /
	7541				В2		2009			T.T.D.	0006	7000	70		0	0061	010
	2007		UZ				2007			KK	2006-	1266	12		2	0061	∠ T &
	8315	-	TNEC		В1		2008	0522		TD	2004	1 407	1.0		70 0	0040	E 1 O
JKTT.	Y APP	ьN.	TNF.O	.:						-	2004-						-
										WO	2005-	リトスの	34		w Z	0050	DTR

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 143:478364

AB The process comprises subjecting ≥1 alkyltin compound selected from among organotin compds. having Sn-O-Sn linkages [e.g., 1,1,3,3-tetrabutyl-1,3-di(butyloxy)distannoxane] as the starting compound and a hydroxy compound (e.g., 1-butanol) as the reactant to dehydration to obtain an alkyltin alkoxide (e.g., dibutyldibutoxytin) corresponding to the starting compound and the reactant, characterized by continuously feeding the starting compound and the reactant into a reactor, discharging a water-containing low-boiling component from the reactor, and continuously withdrawing a reaction fluid containing an alkyltin alkoxide as the bottom from the reactor. The alkyltin alkoxides were used as catalysts for preparation of carbonic acid esters (e.g., di-Bu carbonate), which were used as starting materials for preparation of di-Ph carbonate for preparation of isocyanates

(e.g., hexamethylene diisocyanate) and polycarbonates.

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD

(2 CITINGS)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:154385 CAPLUS

DOCUMENT NUMBER: 140:200320

TITLE: (1,3-dioxolan-4-yl)methanols, their (meth)acrylates

with low skin irritation, manufacture of the methanols

and the methacrylates, and UV-curable compositions

INVENTOR(S): Kawakami, Naohiko; Abe, Toshinao

PATENT ASSIGNEE(S): Osaka Yuki Kagaku Kogyo Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004059435 PRIORITY APPLN. INFO.:	A	20040226	JP 2002-215375 JP 2002-215375	20020724 20020724
OTHER SOURCE(S):	MARPAT	140:200320		

GΙ

AB The dioxolanylmethanols I (R = H, R1, R2 = H, C1-18 alkyl, Ph; R1 and R2 may form ring) are manufactured by treatment of R1COR2 (R1, R2 = same as above) with glycerin (II) in the presence of esterification catalysts while dewatering until conversion of II reaches 20-95%, and removal of II layers from the reaction mixts. The I (R, R1, R2 = same as above) are transesterified with (meth)acrylic acid lower alkyl esters in the presence of catalysts and polymerization inhibitors to give I (R = COCR3:CH2; R3 = H, C1-4

alkyl). Thus, a composition containing Viscoat 360 (ethoxylated trimethylolpropane

triacrylate) 40, Viscoat 540 (bisphenol A diglycidyl ether acrylate) 10, I [R = COCH:CH2, R1 = Me, R2 = Et; manufactured from I (R = H, R1 = Me, R2 = Et), II, and Me acrylate] 50, Irgacure 907 (photoinitiator) 3, and Kyacure DETX-S (photoinitiator) 1 part showed curability comparable to that of a composition containing tetrahydrofurfuryl acrylate.

L12 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2003:1010049 CAPLUS

DOCUMENT NUMBER: 141:157869

TITLE: Catalytic synthesis of dioctyl phthalate by

di-n-octyltin oxide

Guo, Shi-sao; Lin, Dong-en; Zhang, Yi-wei AUTHOR(S): Department of Applied Chemistry, South China CORPORATE SOURCE:

University of Technology, Guangzhou, 510641, Peop.

Rep. China

SOURCE: Hecheng Huaxue (2003), 11(5), 462-464

CODEN: HEHUE2; ISSN: 1005-1511

PUBLISHER: Hecheng Huaxue Bianjibu

DOCUMENT TYPE: Journal Chinese LANGUAGE:

Dioctyl phthalate was prepared by esterification of phthalic anhydride using dioctyltin oxide as catalyst. Under optimum conditions, the yield reached

L12 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1990:612809 CAPLUS

DOCUMENT NUMBER: 113:212809

ORIGINAL REFERENCE NO.: 113:35990h,35991a
TITLE: Manufacture of (meth)acrylate esters

INVENTOR(S): Haga, Masami

PATENT ASSIGNEE(S): Idemitsu Petrochemical Co., Ltd., Japan

Jpn. Kokai Tokkyo Koho, 8 pp. SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE _____ ----_____ A 19900427 JP 1988-266240 19881024 JP 1988-266240 19881024 JP 02115141 PRIORITY APPLN. INFO.: (Meth) acrylate esters are prepared in high yield without discoloration by esterification of (meth)acrylic acid with hydroxy compds. in the presence of Sn catalysts. Thus, a mixture of 1.00 mol BuOH and 1.10 mol acrylic acid were stirred in toluene in the presence of 2.5 mol% SnO and 75 mg methoxyhydroquinone at 115-149° for 8 h to give 97.9% Bu acrylate at 98.1% BuOH conversion.

L12 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1986:480804 CAPLUS DOCUMENT NUMBER: 105:80804

ORIGINAL REFERENCE NO.: 105:13107a,13110a

Marine antifouling paint TITLE: INVENTOR(S): Makepeace, Andrew Peter PATENT ASSIGNEE(S): International Paint PLC, UK SOURCE: Brit. UK Pat. Appl., 10 pp.

CODEN: BAXXDU

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2159827 GB 2159827	A B	19851211 19871209	GB 1985-14492	19850607

US	4654380	A	19870331	US	1985-741607		19850605
DK	8502570	A	19851209	DK	1985-2570		19850607
NO	8502311	A	19851209	ИО	1985-2311		19850607
AU	8543420	A	19851212	AU	1985-43420		19850607
AU	577741	B2	19880929				
JP	61004777	A	19860110	JΡ	1985-122850		19850607
PRIORITY	APPLN. INFO.:			GB	1984-14675	Α	19840608

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The title paints contains binders containing organic Sn groups and marine biocides. Thus, heating 130 g CH2:CHCO2Sn(OAc)Bu2 solution [prepared by esterifying [Bu2Sn(OAc)]20 with 144.1 g acrylic acid in xylene] with Et acrylate 53.7, xylene 215, and AIBN 1.2 g for 3 h at 75° gave a copolymer (I). A paint containing blue pigment 0.24, I 59.94, TiO2 1.29, talc 2.97, silica-bentonite 0.99, CuSCN 10.49, xylene 23.95, and BuOH 0.13% applied to a ships hull had good antifouling properties.

L12 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1976:464947 CAPLUS

DOCUMENT NUMBER: 85:64947

ORIGINAL REFERENCE NO.: 85:10450h, 10451a

TITLE: Organo tin compounds useful as catalysts in the

polycondensation of organosilicon compounds

INVENTOR(S):
Sagi, Ferenc; Roussos, Michel

PATENT ASSIGNEE(S): Rhone-Poulenc S. A., Fr.

SOURCE: U.S., 6 pp. Division of U.S. 3,819,673.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 3936482	A	19760203	US 1974-465075		19740429
US 3819673	A	19740625	US 1972-237514		19720323
PRIORITY APPLN. INFO.:			US 1972-237514	А3	19720323
			FR 1971-10383	A	19710324

GΙ

AB Tin compound I (R = 4-oxo-2,6-heptanediyl) (II) [59479-95-7] or tin compound I (R = p-xylylene)(III) [37780-68-0] catalyze hardening of organosilicon oligomers and improve the non-stick properties of silicone coatings on paper strips used to protect adhesive tapes. Excellent non-stick properties and resistance to aging were shown by coatings prepared by combining 25 parts organosilicon emulsion [e.g. poly(dimethylsiloxane)-poly(hydromethylsiloxane)-poly(vinyl alc.) (IV)-water mixture] with 5 parts hardener emulsion (II-Zn octanoate-PhMe-perchloroethylene-aqueous IV dispersion). The coaing was dried at 120° for 2 min. Similar organosilicon coatings containing II or III were also used for Al pans on which eggs could be fried without grease.

The preparation of II and III involved 1st the esterification of thioglycolic acid [68-11-1] with 2,2'-dihydroxypropyl ether [110-98-5] or p-xylylene glycol [589-29-7] and then the condensation of the esters with di-n-octyltin oxide [870-08-6] in boiling PhMe.

L12 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1976:89835 CAPLUS

DOCUMENT NUMBER: 84:89835

ORIGINAL REFERENCE NO.: 84:14649a,14652a

TITLE: Aromatic dicarboxylic acid esters

INVENTOR(S): Okada, Katsuhiko; Tanaka, Michihika; Kitagawa, Hideji

PATENT ASSIGNEE(S): Toray Industries, Inc., Japan SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 48068539	A	19730918	JP 1971-105270	19711227
JP 55041220	В	19801022		

PRIORITY APPLN. INFO.: JP 1971-105270 A 19711227

AB Aromatic dicarboxylate esters were prepared by reaction of 1 or more aromatic dicarboxylic acids with 1 or more glycols in the presence of RSn(S)SH (R = alkyl, cycloalkyl, aryl, aralkyl). Thus, 86.6 g terephthalic acid (I), 200 g HOCH2CH2OH, and 0.03 mole BuSn(S)SH/mole I was heated at 196-200° for 3 hr 41 min with removal of H2O to give an ester which was polymerized to give a polyester having intrinsic viscosity 0.663 and transparency 71.7, compared to 4 hr 40 min, 0.665, and 70.2, resp., with Bu2SnO as catalyst and 6 hr 39 min, 0.671, 68.1, resp., without a catalyst.

L12 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1974:492465 CAPLUS

DOCUMENT NUMBER: 81:92465

ORIGINAL REFERENCE NO.: 81:14661a,14664a

TITLE: Diorganotin mercaptides

PATENT ASSIGNEE(S): Societe des usines chimiques de Rhone-Poulenc

SOURCE: Fr. Demande, 9 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent LANGUAGE: French

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2179561	A1	19731123	FR 1972-12771	19720412
FR 2179561	В1	19740830		
NL 7304676	A	19731016	NL 1973-4676	19730404
JP 49007225	A	19740122	JP 1973-40072	19730410
US 3818062	A	19740618	US 1973-350122	19730411
GB 1393517	A	19750507	GB 1973-17465	19730411
СН 579582	A5	19760915	CH 1973-5175	19730411
CA 1005451	A1	19770215	CA 1973-168672	19730411

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A1 19731012 BE 1973-129963
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    BE 798156
     DE 2318554
                        A1 19731018 DE 1973-2318554
                                                                 19730412
                        B 19741010 IT 1973-22923
     IT 981936
                                                                 19730412
     US 3879344
                        A
                                          US 1973-423375
                                                                 19731207
                               19750422
                                                             A 19720314
PRIORITY APPLN. INFO.:
                                           FR 1972-9097
                                           FR 1972-12771
                                                             A 19720412
                                           FR 1973-9097 A 19730314
US 1973-350122 A3 19730411
    An unsatd. diol was treated with a mercaptocarboxylic acid and the product
AB
    was treated with a dialkyl tin oxide to give a polymeric organo chain
     mercaptide which stabilized thin transparent films of PVC [9002-86-2]
     against yellowing at 180-230.deg.. A composition containing PVC 100,
butadiene-Me
     methacrylate-styrene copolymer 10, a wax 1, and the diorgano tin
     mercaptide mixture 1 g was extruded into film and remained colorless after
     14 min at 180.deg.. A composition containing a stabilizer prepared from
butanediol
     was an intense yellow color after 14 min at 180.deg.. Thus, 97 g
     thioglycolic acid [68-11-1] was treated with 44 g but-2-ene-1,4-diol
     [110-64-5] and, at the end of the esterification, 180 g dioctyl
     tin oxide [870-08-6] was added to give 235 g of a mixture of
     [-Sn(C8H17)2SCH2CO2CH2CH:CHCH2O2CCH2S-]n, mol. weight 1085, and 10-20%
     [-Sn(C8H17)202CCH2SCH2CH:CHCH2SCH2CO2]n.
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ABS ----- GI and AB
ALL ---- BIB, AB, IND, RE
APPS ----- AI, PRAI
BIB ----- AN, plus Bibliographic Data and PI table (default)
CAN ----- List of CA abstract numbers without answer numbers
CBIB ----- AN, plus Compressed Bibliographic Data
CLASS ----- IPC, NCL, ECLA, FTERM
DALL ----- ALL, delimited (end of each field identified)
DMAX ----- MAX, delimited for post-processing
FAM ----- AN, PI and PRAI in table, plus Patent Family data
FBIB ----- AN, BIB, plus Patent FAM
IND ----- Indexing data
IPC ----- International Patent Classifications
MAX ----- ALL, plus Patent FAM, RE
PATS ----- PI, SO
SAM ----- CC, SX, TI, ST, IT
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;
             SCAN must be entered on the same line as the DISPLAY,
             e.g., D SCAN or DISPLAY SCAN)
STD ----- BIB, CLASS
IABS ----- ABS, indented with text labels
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IBIB ----- BIB, indented with text labels
{\tt IMAX} ----- {\tt MAX}, indented with text labels
ISTD ----- STD, indented with text labels
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	AN, plus Bibliographic Data (original) OBIB, indented with text labels						
	BIB, no citations IBIB, no citations						
	Fields containing hit terms IC, ICA, ICI, NCL, CC and index field (ST and IT)						
	containing hit terms HIT RN and its text modification HIT RN, its text modification, its CA index name, and						
HITSEQ	its structure diagram HIT RN, its text modification, its CA index name, its						
FHITSTR	structure diagram, plus NTE and SEQ fields First HIT RN, its text modification, its CA index name, and its structure diagram						
FHITSEQ	First HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields						
	Hit term plus 20 words on either side Number of occurrence of hit term and field in which it occurs						
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All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number. ENTER DISPLAY FORMAT (BIB):his 'HIS' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'							
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IALL ----- ALL, indented with text labels
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ISTD ----- STD, indented with text labels
OBIB ----- AN, plus Bibliographic Data (original)
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SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations
HIT ----- Fields containing hit terms
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HITSEQ ----- HIT RN, its text modification, its CA index name, its
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OCC ----- Number of occurrence of hit term and field in which it occurs
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BIB	AN, plus Bibliographic Data and PI table (default)
CAN	List of CA abstract numbers without answer numbers
CBIB	AN, plus Compressed Bibliographic Data
CLASS	IPC, NCL, ECLA, FTERM
DALL	ALL, delimited (end of each field identified)
DMAX	MAX, delimited for post-processing
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FBIB	AN, BIB, plus Patent FAM
IND	Indexing data
IPC	International Patent Classifications
MAX	ALL, plus Patent FAM, RE
PATS	PI, SO

SAM ----- CC, SX, TI, ST, IT SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers; SCAN must be entered on the same line as the DISPLAY, e.g., D SCAN or DISPLAY SCAN) STD ----- BIB, CLASS IABS ----- ABS, indented with text labels IALL ----- ALL, indented with text labels IBIB ----- BIB, indented with text labels IMAX ----- MAX, indented with text labels ISTD ----- STD, indented with text labels OBIB ----- AN, plus Bibliographic Data (original) OIBIB ---- OBIB, indented with text labels SBIB ----- BIB, no citations SIBIB ----- IBIB, no citations HIT ----- Fields containing hit terms HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT) containing hit terms HITRN ----- HIT RN and its text modification HITSTR ---- HIT RN, its text modification, its CA index name, and its structure diagram HITSEQ ----- HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields FHITSTR ---- First HIT RN, its text modification, its CA index name, and its structure diagram FHITSEQ ---- First HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields KWIC ----- Hit term plus 20 words on either side OCC ----- Number of occurrence of hit term and field in which it occurs To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI, AU; BIB, ST; TI, IND; TI, SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification. All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number. ENTER DISPLAY FORMAT (BIB): ibib L12 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN 2005:1241268 CAPLUS ACCESSION NUMBER: 143:478364 DOCUMENT NUMBER: TITLE: Process for production of alkyltin alkoxides Miyake, Nobuhisa; Onishi, Kazuhiro; Bijanto, Budianto INVENTOR(S): PATENT ASSIGNEE(S): Asahi Kasei Chemicals Corporation, Japan SOURCE: PCT Int. Appl., 110 pp. CODEN: PIXXD2 DOCUMENT TYPE: Patent LANGUAGE: Japanese FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

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APPLICATION NO.
     PATENT NO.
                          KIND DATE
     WO 2005111049 A1 20051124 WO 2005-JP9032 20050518
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A1 20070307 EP 2005-741483
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     EP 1760085
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BR 2005011251

RU 2338749

C2 20081120

BB 2006-144954

JP 4257798

B2 20090422

JP 2006-513613

TW 299042

B 20080721

TW 2006-KN3382

US 20080275262

A1 20081106

US 2006-596885

US 7541482

B2 20090602

KR 2007010202

A 20070122

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WO 2005-JP9032 W 20050518
PRIORITY APPLN. INFO.:
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 143:478364
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OS.CITING REF COUNT:
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REFERENCE COUNT:
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Patenting and Commercialization of Bioethanol

NEWS 17 JUN 29 Enhanced Batch Search Options in DGENE, USGENE, and PCTGEN

NEWS 18 JUL 19 Enhancement of citation information in INPADOC databases provides new, more efficient competitor analyses

NEWS 19 JUL 26 CAS coverage of global patent authorities has expanded to 61 with the addition of Costa Rica

NEWS EXPRESS FEBRUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2, AND CURRENT DISCOVER FILE IS DATED 07 JULY 2010.

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FILE LAST UPDATED: 12 Aug 2010 (20100812/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2010

CAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2010.

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=> s organotin

12404 ORGANOTIN 942 ORGANOTINS

L1 12665 ORGANOTIN

(ORGANOTIN OR ORGANOTINS)

=> s l1 (L) (transesterification or esterification) (L) (fat# or oil#)

25761 TRANSESTERIFICATION 335 TRANSESTERIFICATIONS

25831 TRANSESTERIFICATION

(TRANSESTERIFICATION OR TRANSESTERIFICATIONS)

112762 ESTERIFICATION 655 ESTERIFICATIONS 112931 ESTERIFICATION

(ESTERIFICATION OR ESTERIFICATIONS)

370291 FAT# 1077862 OIL#

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ANSWER 1 OF 7 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:857653 CAPLUS

DOCUMENT NUMBER: 149:157057

TITLE: Manufacture of fatty acid monoesters and organotin

transesterification catalysts therefor

INVENTOR(S): Odera, Junzo

Asahi Kasei Corporation, Japan PATENT ASSIGNEE(S): SOURCE: Jpn. Kokai Tokkyo Koho, 37pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

KIND DATE APPLICATION NO. DATE PATENT NO. _____ ----_____ _____ JP 2008163148 A 20080717
PRIORITY APPLN. INFO.:
OTHER SOURCE(S): MARPAT 149:157057 A 20080717 JP 2006-353158 20061227 JP 2006-353158 20061227

GT

AB Animal and/or plant oils (e.g., used edible oils) are transesterified with alcs. ROH [R = C1-24] (un) saturated aliphatic group [R = C1-24] in the presence of organic Sn

catalysts to give the title fatty acid monoesters, useful for biodiesel fuels. The catalysts comprise (A) (R1R2Sn0)m(R3R4Sn0)n [R1, R2 = C1-15 (halo) alkyl, C1-15 (halo) aralkyl; R3, R4 = C1-15 (halo) alkyl, C1-15 (halo) aralkyl, OH, halo, H; $m \ge 1$; $n \ge 0$], (B) I [R6-R13 = same as R1; X1-X4 = halo, alkoxy, alkylthio, thiocyanato, OH], (C) R14R15R16SnOSnR17R18R19 [R14, R15, R17, R18 = same as R1; R16, R19 = C1-15 (halo) alkyl, C1-15 (halo) aralkyl, alkoxy, alkylthio, thiocyanato, OH, halo], or (D) (R24YSnO)n (R24 = same as R1; Y = OH, C1-5 alkoxy, halo, H; $p \ge 1$). By using the catalysts, the transesterification can be done in mild conditions and high conversion.

ANSWER 2 OF 7 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2003:760423 CAPLUS

DOCUMENT NUMBER: 140:375859

TITLE: Organotin catalyzed polycondensation reactions in

alkyd synthesis

Dabral, Mahendra; Xu, Cheng; Papanu, Victor AUTHOR(S):

CORPORATE SOURCE: Atofina Chemicals, Inc., King of Prussia, PA, 19406,

USA

SOURCE: Proceedings of the International Waterborne,

High-Solids, and Powder Coatings Symposium (2003),

30th, 423-430 CODEN: PIWCF4

PUBLISHER: University of Southern Mississippi, Dep. of Polymer

> Science Journal

DOCUMENT TYPE: LANGUAGE: English

Alkyd polymer resins, which are polyesters containing a fatty oil component, can be prepared by organotin catalysts to give resins with improved properties when compared to conventional alkali metal catalysts (e.g., lithium hydroxide). Organotin catalysts (e.g., Fascat 4350) effectively catalyze both of the stages in alkyd synthesis, alcoholysis (transesterification) and the subsequent chain extension by esterification reaction. The alcoholysis stage was monitored with IR spectroscopy and shows good correlation with conventional methanol solubility test. The final alkyd resins were characterized for mol. weight distribution, acid number, viscosity, and drying performance. Results on a range of resin formulations show that using Fascat 4350 reduces alkyd synthesis cycle times, and generates haze-free alkyds with improved color when compared to lithium neodecanoate catalyst.

REFERENCE COUNT: THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 7 CAPLUS COPYRIGHT 2010 ACS on STN L2

1999:351628 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 131:158852

TITLE: Catalysts for use in the acidolysis, alcoholysis and

esterification reactions of polyesters for coating

resins

Ratliff, K. S.; Predny, L. J. AUTHOR(S):

CORPORATE SOURCE: Amoco Chemicals, USA

Advances in Coatings Technology, ACT '98, SOURCE:

> International Conference, 3rd, Katowice, Pol., Oct. 20-23, 1998 (1998), 10/1-10/21. Institute of Plastics

and Paint Industry: Gliwice, Pol.

CODEN: 67QXA2

DOCUMENT TYPE: Conference LANGUAGE: English

Various organotin catalysts along with LiOH and

p-toluenesulfonic acid were evaluated for acidolysis, alcoholysis, and

esterification processing of two alkyd resins based on soybean oil and a high-solid polyester resin coating materials, all three

resins containing isophthalic acid as a monomer. Paints were formulated and

their performance characteristics were determined

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 5 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 4 OF 7 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1995:535652 CAPLUS

DOCUMENT NUMBER: 123:146778

ORIGINAL REFERENCE NO.: 123:26113a,26116a

TITLE: Catalysts for alkyd production

Seshadri, Sri R. AUTHOR(S):

Eif Atochem North America, USA CORPORATE SOURCE:

PPCJ, Polymers Paint Colour Journal (1995), 185(4363), SOURCE:

12

CODEN: PPCJF8; ISSN: 1357-731X

DOCUMENT TYPE: Journal LANGUAGE: English

Fascat 4350, an organotin compound, was developed as a catalyst for the alcoholysis and esterification reaction in alkyd manufacture Preparation of long oil alkyds with this catalyst showed a 20% reduction in cycle time compared to Li salts. Alkyds prepared with this catalyst had

low acid number, improved color and haze-free appearance.

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD OS.CITING REF COUNT: 1

(1 CITINGS)

ANSWER 5 OF 7 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1978:172057 CAPLUS

DOCUMENT NUMBER: 88:172057

ORIGINAL REFERENCE NO.: 88:27111a,27114a TITLE: Polyurethane binders

Kitzler, Jaroslav; Hajek, Karel INVENTOR(S):

PATENT ASSIGNEE(S): Czech.

Czech., 4 pp. CODEN: CZXXA9 SOURCE:

DOCUMENT TYPE: Patent LANGUAGE: Czech FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

APPLICATION NO. DATE PATENT NO. KIND DATE ----_____ CS 170373 B1 19760827 CS 1974-4608 19741222 CS 1974-4608 A 19741222 PRIORITY APPLN. INFO.:

Rapidly drying and hardening urethane alkyds of light color, good elasticity, and good adhesion to metal and wood are manufactured when 0.001-0.5% (based on total weight of components) of organotin compound is used as a catalyst in the esterification, transesterification, and addnl. steps of synthesis in which C14-C20 unsatd. fatty acids or their glycerides are first reacted with C2-8 polyols, then with C3-10 carboxylic acids or their derivs., and then with polyisocyanates in 1-60% inert solvent at NCO/OH ratio 0.7-1.0. Thus, 310 parts safflower oil was esterified with 50 parts glycerol in the presence of 0.35 part dibutyltin bis(2-ethylhexyl maleate) [15546-12-0] at 240° until the product exhibited maximum miscibility in MeOH, and then the product was reacted with 125 parts 2,4-toluene diisocyanate at NCO/OH ratio 0.86 in 324 parts lacquer petroleum at $70-95^{\circ}$ until the NCO group concentration was <0.1% to give a urethane alkyd which dried in 50 min and hardened in 24 h when 0.04% Co and 0.3% Pb were added as naphthenates.

ANSWER 6 OF 7 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1976:478995 CAPLUS DOCUMENT NUMBER: 85:78995

ORIGINAL REFERENCE NO.: 85:12699a,12702a

TITLE: Esters and alkyd resins
INVENTOR(S): Hayashi, Nobuyuki; Tanaka, Shigeyoshi
PATENT ASSIGNEE(S): Hitachi Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp. SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PRIORITY APPLN. INFO.:

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| | | | | |
| JP 51063803 | A | 19760602 | JP 1974-120359 | 19741021 |
| JP 57023695 | В | 19820520 | | |

JP 1974-120359

Esters were prepared by transesterification of vegetable oils with alcs. in the presence of nontoxic organometallic catalysts (R2Sn(O2CR1)2; R,R1 = Me, Et, Pr, Bu, hexyl, and octyl); the esters were reacted with polybasic acids to give alkyd resins. Thus, a mixture of coconut oil 500, pentaerythritol 50, and dibutyltin dilaurate [77-58-7] 0.1 g was transesterified at 240°, and the esterified product was refluxed with a mixture of 90 g isophthalic acid and 100 g xylene to give an alkyd resin with acid value 80.

ANSWER 7 OF 7 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1967:28891 CAPLUS DOCUMENT NUMBER: 66:28891

ORIGINAL REFERENCE NO.: 66:5519a

TITLE: Triorganotin oximes as general and selective herbicides and as bacteriostats and fungistats

INVENTOR(S): Weissenberger, Gustav

PATENT ASSIGNEE(S): Monsanto Co. SOURCE: U.S., 7 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

KIND DATE APPLICATION NO. PATENT NO. _____ _____ US 3282672 19661101 US 1965-473540 19650524 PRIORITY APPLN. INFO.: US The process for preparing the title compds. by transesterification of organotin alkoxides (CA 50, 10761c) has been improved. Higher yields are obtained by treating a bis(triorganotin) oxide or a triorganotin hydroxide with an oxime or by reaction of triorganotin halides with the alkali salts of mono-, di-, and trioximes. The title compds. have the general formula R1R2CNOSnR3R4R5. The title compds. are generally prepared by heating together a bis(triorganotin) oxide or a triorganotin hydroxide and an oxime and by removing by evaporation or with an azeotrope the H2O formed in the reaction. When a triorganotin halide is heated with an alkali salt of an oxime, then acid-binding agents such as alkali carbonates or alkali hydroxides are used. The following examples are given (compound, b.p./mm. or m.p., n20D, % yield, and method given): C15H33ONSn (I), $83-5^{\circ}/0.005$, 1.4768, 86, refluxing 0.094 mole acetone oxime and 0.047 mole (Bu3Sn)20; C25H37-ONSn (II), 215°/0.25, 1.5553, 88-95, refluxing 0.025 mole benzophenone oxime and 0.0127 mole (Bu3Sn)20; C21H45ONSn, 118°0.005, 1.4750, 90.5, refluxing 0.021 mole acetone oxime and 0.01 mole bis(trihexyltin) oxide; C13H29ONSn (III), $75-6^{\circ}/0.006$, 1.4837, -, refluxing 0.016 mole Na salt of trimeric formal oxime and 0.05 mole Bu3SnCl; C17H31O2NSn (IV), $113-15^{\circ}/0.001$, 1.5181, 83.6, refluxing 0.058 mole furfural oxime and 0.029 mole (Bu3Sn)20; C30H49ONSn, 192-3°/0.01, 1.5388, 96, refluxing 0.01 mole bis(trihexyltin) oxide and 0.02 mole benzophenone oxime; C30H62O2N2Sn2, - (decomposition), 1.5065, 95, refluxing 0.039 mole (Bu3Sn)20 and 0.039 mole 1,4-cyclohexanedione dioxime; -, m. $45-9^{\circ}$, -, 92, refluxing 0.006 mole bis(tridodecyltin) oxide and 0.012 mole acetone oxime; -, m. $133-7^{\circ}$, -, 98, refluxing 0.006 mole bis(tridodecyltin) oxide and 0.012 mole benzophenone oxime; C38H64N2O2Sn2, -, 1.5382, 100, refluxing 0.05 mole (Bu3Sn)20 and 0.05 mole diphenylglyoxime; C28H60N2O2Sn2 (V), - (yellow oil), 1.5050, 100, refluxing 0.05 mole (Bu3Sn)20 and 0.05 mole dimethylglyoxime. Tests conducted with S. aureus and A. niger showed that I-V all inhibited the growth of both the bacteria and fungus at concns. as low as 1 ppm. III and IV at 0.25% concentration by weight inhibited the growth of A. niger in fungistatic tests performed on 3 + 3 in. cotton cloth swatches washed in a detergent containing triorganotin oximes. The pre-emergent herbicidal activity was determined; III and IV showed 75 to 100% inhibition of growth. III and IV showed between 75 to 100% inhibition of growth at 0.5% concentration in post-emergent herbicidal tests. THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD OS.CITING REF COUNT: 1

(1 CITINGS)

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FILE 'CAPLUS' ENTERED AT 17:18:51 ON 13 AUG 2010

L1 12665 S ORGANOTIN

L2 7 S L1 (L) (TRANSESTERIFICATION OR ESTERIFICATION) (L) (FAT# OR O

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF LOGOFF? (Y)/N/HOLD:y
STN INTERNATIONAL LOGOFF AT 17:21:43 ON 13 AUG 2010